

10/524085

BT01 PCT/PIC 09 FEB 2005

In the Claims:

1. (currently amended) A detergent comprising:
a) 0.001% to 40% w/v of a bactericidally active water-insoluble cationic compound in its salt form wherein the counterion anion has at least one of the following properties:

1) can generate a water-insoluble salt form wherein, ~~by water-insoluble we mean that~~ less than 10% w/v dissolves in deionised water at 20°C; preferably less than 1% w/v;

2) has a MW of less than 300, (~~preferably less than 200~~) but greater than 50 (~~preferably greater than 75~~),

3) the dissociation constant (Kd) of the salt form is less than 10^{-3} , preferably less than 10^{-6} ;

b) 0.001 to 40% w/v of an anionic surfactant; and

c) up to 98% w/v of water.

2. (currently amended) A detergent composition ~~as claimed in claim 1~~ which additionally comprises 0.001 to 30% w/v of a non-ionic surfactant.

3. (currently amended) A detergent composition according to claim 1 ~~as claimed in claim 1 and 2~~ which additionally comprises 0.001 to 10% w/v of a superwetting agent.

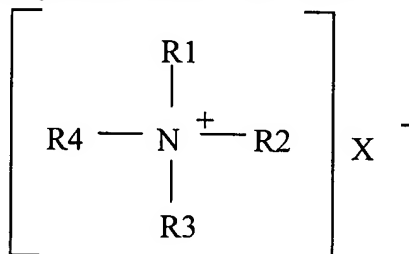
4. (currently amended) A detergent composition according to ~~as claimed in claim 3~~ wherein the super wetting agent is able to lower the surface tension of water to below 25 mN/m at concentrations of 0.0001 to 1% w/v.

5. (currently amended) A detergent composition according to claim 1 ~~as claimed in claims from 1 to 3~~ which additionally comprises 0.001% to 15% of a water-miscible organic solvent.

6. (currently amended) A detergent composition according to claim 1 ~~as claimed in claims 1 to 5~~ which additionally comprises 0.01-5%w/v of a chelating agent, 0.01-30%w/v of a polymer and up to 2%w/v of minor ingredients selected from perfumes, dyes, preservatives and antifoaming agents

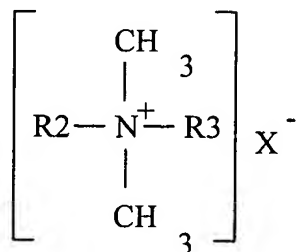
7. (currently amended) A detergent composition according to claim 1 ~~which further described in claims 1 to 6~~ additionally comprises from 0.001 to 1%w/v of an additional bactericidally active product selected from essential oils (tea tree oil, citronella oil and thyme oil), phenols, alcohols, halogens, aldehydes and acids.

8. (currently amended) A detergent composition according to claim 1 ~~as claimed in any claim from 1 to 7~~ wherein the cationic compound is



wherein R1, R2, R3 and R4 are independently selected from alkyl, aryl or alkylaryl substituent of from 1 to 26 carbon atoms straight chained or branched and may include one or more amide, ether or ester linkates, and the entire cation portion of the molecule has a molecular weight of at least 165 and X is the counterion anion.

9. (currently amended) A detergent composition according to ~~as claimed in claim 8~~ wherein the cationic compound is



wherein R2 and R3 are each independently the same or different C8 -C12 alkyl; or R2 is selected from C12-16 alkyl, C8-18 alkylethoxy or C8-18 alkylphenoxyethoxy and R3 is benzyl and X is the counterion anion.

10. (currently amended) A detergent composition according to claim 7 ~~as claimed in claim 7 or claim 8~~ wherein X⁻ is selected from saccharinate, alkyl and alkyl benzene sulfate, sulfonate and fatty acid.

11. (currently amended) Use of a bactericidally active water-insoluble cationic compound in its salt form, wherein the counterion anion has at least one of the following properties:

1) can generate a water-insoluble salt form wherein, ~~by water-insoluble we mean that~~ less than 10% w/v dissolves in deionised water at 20°C; ~~preferably less than 1% w/v;~~

2) has a MW of less than 300, ~~preferably less than 200~~ but greater than 50, ~~preferably greater than 75;~~

3) the dissociation constant (K_d) of the salt form is less than 10⁻³; ~~preferably less than 10⁻⁶;~~

as a bactericidally active component of a fabric treatment composition comprising from 0.001 to 40% w/v of an anionic surfactant.